

WHAT IS CLAIMED IS:

1. A wireless communication apparatus comprising:
forming means for forming a wireless communication
channel to a public network base station;

5 connection means for connecting a plurality of
communication apparatuses to the communication channel;
and

setting means for setting up a communication speed
of the communication channel according to the
10 communication speed of a plurality of communication
apparatuses.

2. The wireless communication apparatus according
to claim 1, wherein said setting means determines
15 whether a communication speed of the communication
channel shall be changed according to the speed of a
communication which one of a plurality of communication
apparatuses starts and the communication speed of the
communication channel.

20 3. The wireless communication apparatus according
to claim 1, wherein said setting means maintains the
communication speed of the communication channel when a
total sum of the speed of the communication which one
25 of a plurality of communication apparatuses starts and
the speed of the communication previously performed is
equal to or less than the communication speed of the

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communication channel.

4. The wireless communication apparatus according to claim 1, wherein said setting means maintains the communication speed of the communication channel when one of a plurality of communication apparatuses finishes the communication and if the speed of another communication is equal to or more than a predetermined value.

5. The wireless communication apparatus according to claim 1, wherein said setting means sets up the communication speed of the communication channel according to the communication speed requested by a plurality of communication apparatuses and the communication speed of a control data used on the communication channel.

6. The wireless communication apparatus according to claim 1, wherein said setting means communicates with a plurality of communication apparatuses according to a communication system different from the communication system used in the communication channel.

7. The wireless communication apparatus according to claim 1, wherein said connection means performs a wireless communication with said plurality of

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communication apparatuses.

8. A wireless communication method comprising steps of:

5 forming a communication channel to a public network base station;

connection a plurality of communication apparatuses to a communication channel; and

10 setting up the communication speed of the communication channel according to the communication speed of said plurality of communication apparatuses.

9. The wireless communication method according to claim 8, wherein said setting up step maintains the
15 communication speed of the communication channel when a total sum of the speed of the communication which one of said plurality of communication apparatuses starts and the speed of the communication previously performed is equal to or less than the communication speed of the
20 communication channel.

10. The wireless communication method according to claim 8, wherein said setting up step maintains the communication speed of the communication channel when
25 one of said plurality of communication apparatuses finishes the communication and if the speed of another communication is equal to or more than a predetermined

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value.

11. A wireless communication program or a storage
medium which stores the program, the program comprising
5 steps of:

forming a wireless communication channel to a
public network base station;

connecting a plurality of communication
apparatuses to a communication channel; and
10 setting up a communication speed of the
communication channel according to the communication
speed of a plurality of communication apparatuses.

12. The wireless communication program or the
15 storage medium which stores the program or the program
according to claim 11, wherein said setting up means
maintains the communication speed of the communication
channel when a total sum of the speed of the
communication which one of a plurality of communication
20 apparatuses starts and the speed of the communication
previously performed is equal to or less than the
communication speed of the communication channel.

13. The wireless communication program or the
25 storage medium which stores the program or the program
according to claim 11, wherein said setting up means
maintains the communication speed of the communication

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channel when one of a plurality of communication apparatuses finishes the communication and if the speed of another communication is equal to or more than a predetermined value.

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14. A wireless communication system comprising a wireless communication apparatus and a wireless public network, wherein said wireless public network comprising:

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a base station; and

a location registration database;

wherein said wireless communication apparatus comprising;

forming means for forming a communication channel

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to said base station;

connection means for connecting a plurality of communication apparatuses to the communication channel; and

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setting up means for setting up the communication speed of the communication channel according to the communication speed of a plurality of communication apparatuses;

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wherein said location registration database stores the locations of said plurality of communication apparatuses.

15. The wireless communication system comprising

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a wireless communication apparatus and a wireless public network according to claim 14, wherein said location registration database stores the location of said wireless communication apparatus.

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16. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 14, wherein said connection means communicates with said plurality of communication apparatuses according to a communication system different from the communication system of the communication which said forming means performs with said base station.

17. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 14, wherein said wireless public network processes incoming calls to said plurality of communication apparatuses according to said location registration database.

18. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 14, wherein said wireless public network performs the location registration to the public network corresponding to said plurality of communication apparatuses.

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19. A wireless communication system comprising a wireless communication apparatus and a wireless public network, wherein said wireless public network comprising:

5 a base station; and
 a location registration database;
 wherein said wireless communication apparatus
comprising;
 forming means for forming a communication channel
10 between said base stations; and
 connection means for connecting a plurality of
communication apparatuses to the communication channel;
 wherein said connection means communicates with
15 said plurality of communication apparatuses according
to a communication system different from the
communication system of the communication which said
forming means perform with said base station, and
 said location registration database stores said
wireless communication apparatus and said base station
20 corresponding to said plurality of communication
apparatuses.

20. The wireless communication system comprising
a wireless communication apparatus and a wireless
25 public network according to claim 19, wherein said
wireless public network processes incoming calls to
said plurality of communication apparatuses according

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to said location registration data base.

21. The wireless communication system comprising
a wireless communication apparatus and a wireless
5 public network according to claim 19, wherein said
wireless public network performs the location
registration to the public network corresponding to
said plurality of communication apparatuses.

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